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NOTES AND NEWS.

The fourth article in the series on the teaching of collegiate mathematics is found in this number, namely: The Teaching of Calculus, by Professor W. B. Ford, of the University of Michigan. Intimately related to this article is a review of an English text on the Calculus by Dr. N. J. Lennes of the Massachusetts Institute of Technology. The fifth article of the series comes next month by Professor Frederick H. Bailey of the Massachusetts Institute of Technology on Unified Mathematics.

Prof. Leonard E. Dickson, formerly editor of the MONTHLY, has just returned to residence at the University of Chicago after a leave of absence which he spent abroad. He has been elected Chairman of the Chicago section of the American Mathematical Society for the present year.

Dr. N. J. Lennes, of the Massachusetts Institute of Technology, has received an appointment as instructor in mathematics at Columbia University, beginning in the autumn of 1910. During the summer he will be in charge of the mathematical courses at the Chautauqua Summer School, Chautauqua, N. Y.

At the spring meeting of the Chicago section of the American Mathematical Society, held at the University of Chicago, April 8-9, 1910, seventeen papers were read and about fifty members were in attendance.

The demand for trained teachers of mathematics for colleges and universities seems far in excess of the supply. At least such is the report from the larger universities which turn out such teachers. The present year is no exception. Already the calls are numerous and urgent. The word would seem to be that more young men should take advantage of the opportunity and at once enter upon a course which will provide the adequate training to meet such demands.

Mr. Egbert J. Miles has been appointed to an instructorship in mathematics at Cornell University, Ithaca, N. Y.

Mr. Arthur D. Pilcher, who has been on leave of absence from the University of Kansas during the past two years, will return to his work in the department of mathematics there with the opening of the autumn semester, 1910.

Professor Archibold Henderson, of the University of North Carolina, has been granted a leave of absence for the year 1910-11.

Professor E. J. Wilczynski, of the University of Illinois, will give courses in mathematics at the University of Chicago during the summer quarter, 1910.

Dr. Anthony L. Underhill, of the University of Minnesota, has been appointed instructor for the summer quarter, 1910, at the University of Chicago.

Miss E. R. Bennett, Fellow at the University of Illinois, has been appointed instructor in mathematics at the University of Kansas.

At the summer session at the University of Illinois, the following courses in mathematics will be offered: Advanced Algebra, Plain Trigonometry; Teachers' Course for Secondary Teachers, Plain Analytic Geometry, Differential Calculus, Integral Calculus, Differential Equations, Elementary Theory of Groups, Theory of Equations and Determinants, Seminar and Thesis Course.

Can any of our subscribers furnish us a copy of No, 1, Vol. XI of MONTHLY. Also a copy each of Nos. 6 and 11 of Vol II ? We have calls for these numbers and we are willing to pay a fair price for them. F.

Professor Oscar Bolza has resigned at the University of Chicago and will return to Germany, where he will lecture in the University of Freiburg. He has been identified with the University of Chicago since its foundation in 1892, and his loss will be felt by a large number of students who love him for his kindly friendship and his inspiring teaching, as well as admire him for his distinguished scholarship in his chosen field of research. Included in this body of his students are no less than seven of his present colleagues at Chicago, who will feel his loss even more keenly than those who are situated in other parts of the country.

The Central Association of Science and Mathematics Teachers is emphasizing the concrete presentation in all branches, and in this spirit the mathematics section has been collecting, through a committee, an extended list of real applied problems in algebra and geometry, from a variety of sources. These have been published in *School Science and Mathematics* during the past two years and have now been gathered and classified in a small pamphlet and are being tried out by a large number of teachers. Copies of this pamphlet may be secured in any quantity, at five cents each, from the secretary of the Mathematical Section, Miss Mabel Sykes, 1223 East 57th street, Chicago, Ill.

Dr. George Bruce Halsted has the work of revising the definitions of the mathematical terms and the selection of new mathematical words for the two new volumes of the *Century Dictionary* which are now going through the press. Some of the new words introduced in current mathematical literature have been coined by Dr. Halsted. F.

"Periodic Orbits about an Oblate Spheroid" is the title of an extended article in the January, 1910, number of the *Transactions of the American Mathematical Society*, by Dr. W. D. MacMillan of the University of Chicago.

Mr. E. B. Escott, instructor in mathematics at the University of Michigan, has an article on "Logarithmic Series" in the *Quarterly Journal of Pure and Applied Mathematics*, No. 162, 1910, and also an article on "Cubic Congruences with Three Real Roots" in the *Annals of Mathematics* for January, 1910.

Dr. E. J. Wilczynski, of the University of Illinois, has been appointed to an associate professorship in mathematics at the University of Chicago. He will enter upon his work at the beginning of the Summer Quarter, 1910.

The Summer Quarter, 1910, at the University of Chicago, will begin Monday, June 20. The courses in mathematics include Trigonometry, College Algebra, Synopic Course in Pure and Applied Mathematics, Differential Calculus, Integral Calculus, Theory of Equations, Differential Equations, Critical Review of Secondary Mathematics, Graphical Methods in Algebra, Theory of Substitutions, General Analysis, Functions of a Complex Variable, Modern Analytic Geometry, Projective Differential Geometry, Seminar on the Foundations of Mathematics, and Reading and Research in Pure Mathematics. The first term extends to July 27, and the second term to September 2.

The courses in advanced mathematics at the various American and foreign universities are announced with some regularity in the *Bulletin of the American Mathematical Society.* Those for 1910—1911 at Cornell, Princeton, Yale, and the University of Strassburg are found in the May, 1910, issue. In this same number also is a list of the doctorates for the year 1908—1909 conferred by the various German universities.

Mr. A. S. Hawkesworth has been appointed professor of higher mathematics in the University of Pittsburgh, Pittsburgh, Pennsylvania.

This issue was mailed May 21.

ERRATA.

The statement of the following problem should appear at the top of page 95.

290. Proposed by C. N. SCHMALL, New York City.

When the equation $ax^2+2hxy+by^2+2gx+2fy+c=0$, represents an ellipse, show (by integration) that its area is

$$\frac{\pi\,(af^2+bg^2+ch^2-abc-2fgh)}{(ab-h^2)^{\frac{3}{2}}}.$$